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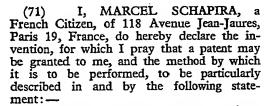
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The present invention relates to tissue papers of a hygienic nature for body use (hereinafter called "tissue" for the sake of convenience) and, more particularly, but not exclusively toilet papers and toilet tissues.

Known tissues of this kind have been conceived only for permitting efficient wiping, and all improvements hitherto proposed have been directed towards the qualities of the tissue in keeping with this objective, that is to say towards fineness, ability to be crumpled or bunched up without forming sharp folds, resistance to tearing, and softness to the touch. Several qualities of tissue have been proposed, the best known being a relative smooth very thin paper and crepe paper, which latter gains in softness what it loses in strength, this deficiency being additionally considerably accentuated by moisture.

considerably accentuated by moisture.

Scenting of tissues can be cited as the sole attempt at improvement not directly bound up with use. Moreover, despite all the care taken in the production of the tissue and in the various processes necessary for its conditioning, a high degree of asepsis cannot be guaranteed, and deterioration occurs in the time which elapses between manufacture and use. On this account, the comfort or emollient effect arising from use of soft toilet tissues is quite often illusory, more especially when account is taken of conditions of modern life which, for many people involves sitting, for long periods, on chairs or seats (such as

vehicle seats) of non-ventilated plastics material and the result of which is that moisture and perspiration not absorbed by the clothing (often made of synthetic textiles) encourage overheating, sweating and irritation in the rectal region as well as development of certain micro-organisms such as yeasts and fungoid growths. Impregnated tissues are used, for example to freshen-up the face or for removing make-up, but these have the disadvantage of being moist and, therefore, of necessitating special tight and individual conditioning for each sheet, which is absolutely incompatible with a toilet tissue for both economic and practical reasons.

An object of the present invention is to provide a dry tissue by which these disadvantages or difficulties can be avoided, which incorporates a carrier which provides improved wiping qualities of the tissue and which further incorporates at least two active substances which for example guarantee a high degree of asepsis, or contribute to improving comfort by reducing perspiration and by protecting against inflammation and irritation.

With this object in view, the present invention provides a dry tissue paper of a hygienic nature for body use characterised in that it incorporates at least two active substances (as herein defined) in a solid carrier having a melting point which is lower than human body temperature.

The active substances may have similar or different properties.

The carrier and active substances may be introduced either by incorporating them into the pulp from which the paper is made so that they are present in the entire thickness of the tissue, or by depositing them on one or both surfaces of the tissue and then drying



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	the tissue, or by a combination of these two processes.	Example 1:		65
5	Another possibility consists in sandwiching the carrier and active substances between two thin sheets which form the tissue and allow them to diffuse when the tissue is used for wiping.	hydroxydiphenyl ether (as	parts 0.050	70
	As used herein, the term "active substance"	agent)	0.025	
	means a substance which is inert relating to	ctilylene glycol monolaurate	0.025	
10	which does not produce any	(as carrier)	100.000	1
	secondary reaction on the skin and the mucous membranes, and which is one or more of the	Example 2:		75
	following, namely an antiseptic, a bactericide		Darte	75
15	an antiphlogistic agent, an anthelmintic agent	chloro dihydroxydiphenyl-	parts	
	rangicide, a deodorant, a lubricant, and for	methane (as a bactericide		
	an emoment epidermic agent.	and imigicide)	0.05	63
	The active substances should, of course, be	menthol (as a skin antiseptic and an emollient epidermic		
20	mert relative to one another.	agent)	0.05	
	Non-restrictive examples of said active sub- stances are antiseptic bactericides such as		0.03	
	thymol, resorcinol and hydroxyquinoline sul-	tate (as carrier)	100.000	85
	phate, anuperspirant agents such as alumi-	5		
25	muu chioronydrate, aluminium chioride	Diampic J.		
	socium lactate, aluminium lactate alumi-	2 8 44	parts	
	nium salicylate and zirconium hydroxide; and substances having several effects such as	hydroxydiphenyl ether (as		
	menuol Willen is both a skin anticentic and	a bactericide and bacterio-		90
30	an emonient agent.		0.050	
30	THE COMMINIMUM OF SPIRATED ONCE OF these	thymol (as an antiseptic and an anthelmintic agent)	0.020	
	substatices with cellilose esters e.g. in admin	azulene (as an antiphlogistic	0.030	
	ture, results in a sizing or coating material which is not very adherent to the tissue and	agent)	0.025	95
25	which, upon use of the figure will leave a	polyoxyethylene glycol mono-		••
35	sugar acposit in the wined region thousand	stearate (as carrier) propylene glycol monomyris-	50.000	
	generating a prolonged sensation of well- being.	tate (also as carrier)	50.000	
	The hygienic tissue of the invention can	•	50.000	
40	oc in the form of toller namer but he areas	In all these examples, the mixture	can be	100
40		arcorporated IIIID The riceip has ad-	1:	
	Portated dicient Such fissing may be a made	the pulp from which the paper is mapplying the mixture as a single lice	ade, by	
	cinal paper, a pharmaceutical paper or a paper for various particular and specific applications	are outstances as stiffeeding travilla	_ -	
	Callons.	or both suffaces of the figure and th	~~~£~~	105
45	Relative hereto, it is to be mentioned that	difing the usue, or no sandwiching +		-03
		ture between two thin paper sheets together form the tissue.	which	
•	wow to substance of scripe cubetones. I	The active substances are associated	d mish	
	ing lubricating and emollient properties, the tissue may be of practical use, for instance, in the fields of intimete business.	the some carrier, which itself man ha		110
50	The residue of minimate Hygiene and Cosmetic	area mis carrier liaving a meltine acing		-10
	Products.	20 10WCI CHAIL HUHIAN NOOV tempero	*****	
	Indeed, by incorporating in the tissue, as	that it will readily become transferred skin when the tissue is rubbed the		
	an active substance, a substance which discourages drying-up of the skin, the tissue can	rearing on the skill a film which cont	wih	115
55	of immercial suitable for like in the pendings	to comiciacing any namage or in	mitatia_	*17
	or concid to minimize numbers to pro 1.	which might arise from the wiping	opera-	
	The surface lavers of configurations -1.	Naturally the invention is not restrict		
	have to remain for a considerable time in contact with the skin and mucous membrane without irritating them.	TO TOTOGOTHE CARINDIES, AND Translation		120
60	The same straight the same also be and	THE COMP THE COMP	of the	100
	Fred and the Dinninghous of tomale for ""	following claims.		
		WHAT I CLAIM IS:_		
	The following examples illustrate composi- tions for use in the invention;—	1. A dry tissue paper of a hygienic	notives	
	and the the the the single out.	for body use characterised in that it	incor-	125

porates at least two active substances (as herein defined) in a solid carrier having a melting point lower than human body temperature.

- 2. A tissue paper as claimed in Claim 1 characterised in that one of the active substances is 2,4,4' trichloro 2' hydroxy diphenyl ether.
- 3. A tissue paper as claimed in Claim 1 or 2 characterised in that one of the active substances is azulene.
- 4. A tissue paper as claimed in any preceding claim characterised in that one of the active substances is thymol.
- 5. A tissue paper as claimed in any preceding claim characterised in that one of the active substances is aluminium chlorohydrate or aluminium chloride.
- 6. A tissue paper as claimed in any preceding claim characterised in that one of the
 active substances is menthol.

7. A tissue paper as claimed in any preceding claim characterised in that the carrier comprises propylene glycol monomyristate.

8. A tissue paper as claimed in any preceding claim characterised in that the carrier comprises polyoxy ethylene glycol monostearate.

9. A tissue paper as claimed in any of Claims 1 to 6, characterised in that the solid compound comprises ethylene glycol monolaurate.

10. A hygienic tissue according to Claim 1 and substantially as herein described.

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